

PRELIMINARY AMENDMENT

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Title: METHODS, FUNCTIONAL DATA, AND SYSTEMS TO REPRESENT A STORAGE ENVIRONMENT

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assembling a hierarchical map representing a path to one or more of the storage locations;

A2
concl
[and]

using the map in a second storage environment to access the data storage object; updating map when changes occur to the data storage object in the first storage environment.

15. A first computer readable medium having a data map representing a data object residing on a second computer readable medium, the map comprising:

A3
a first node representing the data object;

a file system node representing a file system on the second computer readable medium;

a volume node representing a volume manager associated with the file system;

one or more partition nodes managed by the volume manager; [and]

one or more disk identifications representing one or more storage devices housing the data object; and

wherein the map is updated when changes are detected in any of the nodes.

21. A storage environment system, comprising:

A4
a first file system;

a second file system;

one or more data objects residing in the second file system and capable of being referenced within the first file system; [and]

a map generated to represent one or more physical locations for each of the one or more data objects and used by the first file system when one or more of the data objects are referenced; and

wherein the map is updated when changes are detected and associated with the one or more data objects.